

# Converting Colors

XYZ(57.7006, 100.0000,  
84.3841)

Have a look what the booklet for  
XYZ(57.7006, 100.0000, 84.3841)  
contains.

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# Color

**XYZ(48.8111, 76.7405,  
80.6464)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFDD
RGB	0, 255, 221
RGB Percent	0%, 100%, 87%
CMY	0.9998, 0.0000, 0.1333
CMYK	1.00, 0.00, 0.13, 0.00
HSL	172°, 100%, 50%
HSV	172°, 100%, 100%
XYZ	48.8111, 76.7405, 80.6464
YIQ	174.8790, -141.0660, -64.6340

# Conversions

## Conversions Part 2

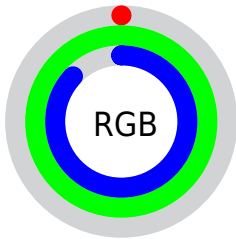
Format	Color
<a href="#">RYB</a>	<a href="#">0, 137, 255</a>
Decimal	<a href="#">65501</a>
CIELab	<a href="#">90.20, -57.36, 2.15</a>
CIELCh	<a href="#">90, 57.405, 177.852</a>
Yxy	<a href="#">76.7405, 0.2367, 0.3722</a>
Android (android.graphics.Color)	<a href="#">4278255581 (0xFF00FFDD)</a>
YUV	<a href="#">174.8790, 22.7377, -153.3689</a>
Hunter-Lab	<a href="#">87.6017, -53.8438, 6.7386</a>

# Details

The XYZ color **48.8111, 76.7405, 80.6464** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **41.5299, 21.3768, 3.4541**, and the grayscale version is **40.6305, 42.7465, 46.5509**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **26.8492, 42.6857, 42.9005** is the 20% darker color. If you saturate the color by 10%, you get **48.8106, 76.7402, 80.6433**, and if you desaturate by 10%, it is **49.6838, 77.1374, 83.0779**.

# Distribution



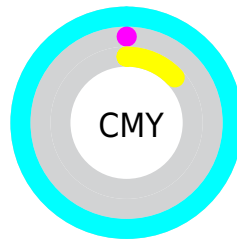
- Red (0%)
- Green (100%)
- Blue (87%)



- Red (0%)
- Yellow (54%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8111, 76.7405, 80.6464 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 48.8111, 76.7405, 80.6464 by changing the saturation by 10% instead.





 48.8111, 76.7405,  
80.6464


 48.8111, 76.7405,  
80.6464


372.5275,  
483.8788, 516.8727


 34.6836, 57.0399,  
59.7211


 87.6132, 128.7731,  
136.0938

 23.5846, 41.0373,  
42.7701


 113.0186,  
161.8739, 171.4529


 15.1488, 28.3482,  
29.3747


 142.9139,  
200.2103, 212.4604

 9.0109, 18.5883,  
19.1164

 177.6645,  
244.1665, 259.5349

 4.8055, 11.3732,  
11.5768

 217.6358,  
294.1271, 313.0948

 2.1672, 6.3184,  
6.3372

263.1932,

 0.7253, 3.0397,

350.4764, 373.5587

2.9791

314.7020,  
413.5989, 441.3452

■ 0.0000, 1.1525,  
1.0840

■ 0.0000, 0.0224,  
0.0000

■ 48.8111, 76.7405,  
80.6464

■ 48.8111, 76.7405,  
80.6464


■ 48.8106, 76.7402,  
80.6433


■ 49.6838, 77.1374,  
83.0779


■ 51.1039, 77.8155,  
85.5818


■ 53.2368, 78.8601,  
88.1676

■ 56.1831, 80.3229,  
90.8401

 60.0275, 82.2475,  
93.6037

 64.8437, 84.6721,  
96.4621

 70.6978, 87.6306,  
99.4185

 77.6502, 91.1542,  
102.4761

 85.7566, 95.2716,  
105.6378

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



52.0858, 76.7405, 48.3284



48.8111, 76.7405, 80.6464



51.2685, 76.7405, 125.9128

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.8111, 76.7405, 80.6464



86.5252, 76.7405, 174.0806



88.5368, 76.7405, 33.1183

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.8111, 76.7405, 80.6464



41.5299, 21.3768, 3.4541

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



99.9907, 76.7405, 51.9571



48.8111, 76.7405, 80.6464



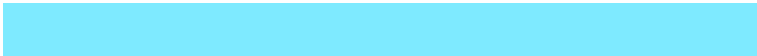
98.7269, 76.7405, 132.7381

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.8111, 76.7405, 80.6464



71.9159, 76.7405, 189.2619



103.9405, 76.7405, 86.5375



73.9728, 76.7405, 27.0590



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.8111, 76.7405, 80.6464



56.0318, 76.7405, 156.4158



103.9405, 76.7405, 86.5375



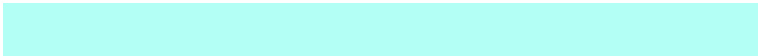
92.9464, 76.7405, 37.7854

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.8120, 76.7409, 80.6478



70.6857, 87.6245, 99.4128



36.5704, 71.9377, 11.9593



14.5736, 18.4740, 21.0090



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

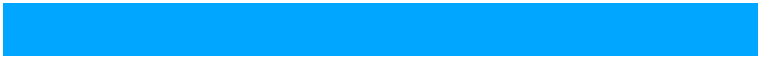
The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.8120, 76.7409, 80.6478



48.8106, 76.7402, 80.6433



31.6445, 34.4080, 99.5813



18.4445, 20.4373, 22.6437



25.5451, 40.1146, 42.3512



2.5149, 3.9169, 4.2693



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



41.5299, 21.3768, 3.4541



41.5288, 21.3755, 3.4508



44.8361, 28.4518, 3.1300



18.1080, 18.0265, 19.1857



21.7297, 11.1812, 1.9613

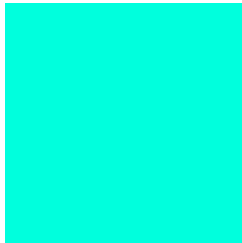


2.1447, 1.1003, 0.3434



# Previews

## White Background



This preview shows how the XYZ color 48.8111, 76.7405, 80.6464 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

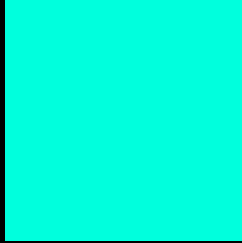
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8111, 76.7405, 80.6464 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

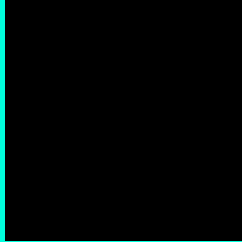
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

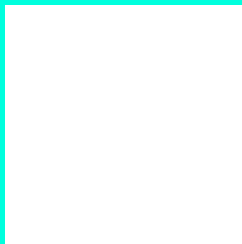
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 48.8111, 76.7405, 80.6464

## Background



This preview shows how black text looks on a background with the XYZ color 48.8111, 76.7405, 80.6464.



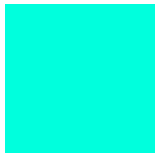
This preview shows how white text looks on a background with the XYZ color 48.8111, 76.7405,



# Color Blindness Simulation

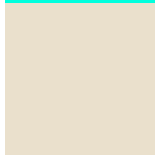
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



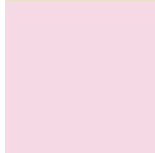
### Original Color

48.8111, 76.7405, 80.6464



### Protanopia

71.4864, 75.1634, 67.8670



### Deuteranopia

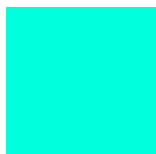
76.8704, 75.2124, 84.5947



## Tritanopia

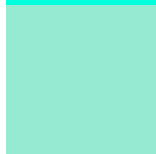
61.1824, 76.1503, 106.0816

# Trichromacy



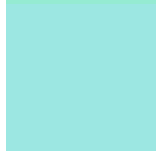
## Original Color

48.8111, 76.7405, 80.6464



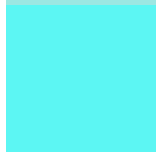
## Protanomaly

53.7356, 70.4594, 71.7406



## Deuteranomaly

56.0137, 69.7107, 82.4548



## Tritanomaly

53.5471, 74.6579, 96.3822

# Monochromacy



## Original Color

48.8111, 76.7405, 80.6464



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

37.6628, 50.3710, 57.6067

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8111, 76.7405, 80.6464 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 255, 221)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 221)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 255, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8111, 76.7405, 80.6464 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 255, 221) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 255, 221) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 255, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 221);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8111, 76.7405, 80.6464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 221) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 255,  
221) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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